JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY

Vol. 257 Nos. 1 and 2 December 23, 1988

CONTENTS

Obituary S. Motoo 1

The oxidation of small organic molecules. A survey of recent fuel cell related research (Review)
R. Parsons and T. VanderNoot (Southampton, Great Britain) 9

The potential dependence of the rate of ion transfer reactions across a liquid/liquid interface
H.H. Girault (Edinburgh, Great Britain) 47

Spatially resolved spectroelectrochemistry for examining an electrochemically initiated homogeneous electron transfer reaction
A.L. Deputy and R.L. McCreery (Columbus, OH, U.S.A.) 57

Virtues of composite structures in electrode modification. Preparation and properties of poly(aniline)/Nafion composite films
D. Orata and D.A. Buttry (Laramie, WY, U.S.A.) 71

Characterization of the diffusion limited current at ultra-small carbon ring electrodes
R.A. Saraceno and A.G. Ewing (University Park, PA, U.S.A.) 83

Temperature dependence of some electric double-layer parameters of silver single-crystal electrodes
A. Popov, O. Velev, T. Vitanov and D. Tonchev (Sofia, Bulgaria) 95

The effect of UV light on the hydrous oxides of iridium
L.D. Burke (Cork, Ireland) and R.A. Scannell (Southampton, Great Britain) 101

Bulk and interfacial properties of solvents. Double-layer structure at the Hg/isomer (C_3 and C_4) diol interface
J.I. Japaridze, Zh.A. Khutzishvili, V.A. Chagelishvili (Tbilisi, U.S.S.R.), G. Borghesani, A. De Battisti, C. Locatelli (Ferrara, Italy) and S. Trasatti (Milan, Italy) 123

Quinone molecular films derived from aminoquinones
V.K. Gater, M.D. Liu, M.D. Love and C.R. Leidner (West Lafayette, IN, U.S.A.) 133

Standard Gibbs energies of transfer of alkali metal cations from water to 1,2-dichloroethane. A critique
Z. Samec, V. Mareček (Prague, Czechoslovakia) and M.P. Colombini (Pisa, Italy) 147

Solvent properties of PVC membranes
R.D. Armstrong, A.K. Covington and W.G. Proud (Newcastle upon Tyne, Great Britain) 155

Study of calcium ion selective electrodes containing Simon ionophores using impedance methods. Bulk properties
R.D. Armstrong and M. Todd (Newcastle upon Tyne, Great Britain) 161

Preparation and characterization of composite films of cobalt tetra(*p*-tolyl)porphyrin immobilized in zeolitic ruthenium oxide/cyanoruthenate microstructures for anodic electrocatalysis
P.J. Kulesza (Warsaw, Poland), T. Mlodnicka and J. Haber (Cracow, Poland) 167

Electrochemistry of the nickel-cyanide system at mercury electrodes. Part IV. Studies on the oxidation of $Ni_2(CN)_6^{4-}$ at mercury electrodes
M. Orlik and Z. Galus (Warsaw, Poland) 183

Dissolution of platinum anodes in sulfuric acid solution
K.-I. Ota, S. Nishigori and N. Kamiya (Yokohama, Japan) 205

Surface composition of binary alloys between Pd and Group IB metals as studied by Auger electron spectroscopy and cyclic voltammetry
K. Nishimura, K. Machida and M. Enyo (Sapporo, Japan) 217

Electroinactive coatings on platinum electrodes in aqueous solution
D.P. Root and N. Priyantha (Honolulu, HI, U.S.A.) 231

A reaction model for the ECECE mechanism. Reduction of *p*-benzoquinone dioxime on Pt/M(upd) modified electrodes in $HClO_4$ solutions
G. Kokkinidis and G. Papanastasiou (Thessaloniki, Greece) 239

(continued on p. 3 of cover)

Contents (*continued*)

The influence of sulphide environment on hydrogen evolution at a stainless steel cathode in alkaline solution
R. Carta, S. Dernini, A.M. Polcaro, P.F. Ricci and G. Tola (Cagliari, Italy) 257

The electrode synergistic adsorption of mixed ligand complexes. Part I. Uranium(VI) salicylic acid / TBP system
M. Mlakar and M. Branica (Zagreb, Yugoslavia) 269

Study of the adsorption and surface reduction of cefazolin by cyclic voltammetry
E. Muñoz, J.L. Avila, L. Camacho, J.E. Cosano and F. García-Blanco (Córdoba, Spain) 281

Short communications

On sampling range and heteroscedasticity in the log-plot analysis of polarograms
M. Sastre de Vicente, J.A. Santabella (A Coruna, Spain), F. Arce and J. Lopez Fonseca (Santiago de Compostela, Spain) 293

Insulating properties of clay films towards $Fe(CN)_6^{3-}$ as affected by electrolyte concentration
A. Fitch and C.L. Fausto (Chicago, IL, U.S.A.) 299

Correction and addendum to the paper "Interfacial relaxation via s-polarized electroreflectance" (J. Electroanal. Chem., 235 (1987) 11)
A.A. Kornyshev and M.I. Urbakh (Moscow, U.S.S.R.) 305

Preliminary notes

Application of radiotracer methods to the study of the formation and behaviour of polymer film electrodes. Investigation of the formation and overoxidation of labelled polyaniline films
G. Horányi and G. Inzelt (Budapest, Hungary) 311

The electrochemical oxidation of ethanol on platinum. A SNIFTIRS study
T. Iwasita and W. Vielstich (Bonn, F.R.G.) 319

Author index 325

Subject index 326

Guide for Authors 329

JOURNAL OF ELECTROANALYTICAL CHEMISTRY AND INTERFACIAL ELECTROCHEMISTRY and BIOELECTROCHEMISTRY AND BIOENERGETICS

Publication schedule for the 1989 subscription (please note that Vols. 255–257, belonging to the 1989 subscription, appeared in 1988)

Month	N (1988)	D (1988)	J	F	
J. Electroanal. Chem.	255/ 1+2 256/1	256/2 257/ 1+2	258/1 258/2	259/ 1+2	The publication schedule for further issues will be published later.
Bioelectrochem. Bioenerg.				275/1	